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DATE: Wednesday, September 28, 2005

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<input type="checkbox"/>	L4 L3 and (nucleic acid or dna or gene) and ctg	5
<input type="checkbox"/>	L3 (candida rugosa or candida cylindracea) same (lipase or lipolytic enzyme)	187
	<i>DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L2 L1 and (nucleic acid or dna or gene) and ctg	12
<input type="checkbox"/>	L1 (candida rugosa or candida cylindracea) same (lipase or lipolytic enzyme)	658

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Search Results - Record(s) 1 through 12 of 12 returned.

1. Document ID: US 6897033 B2

Using default format because multiple data bases are involved.

L2: Entry 1 of 12

File: USPT

May 24, 2005

US-PAT-NO: 6897033

DOCUMENT-IDENTIFIER: US 6897033 B2

TITLE: Fungal lipase

DATE-ISSUED: May 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dawson; Thomas Larry	Hamilton	OH		
Deangelis; Yvonne Marie	Cincinnati	OH		
Johnstone; Kevin Robert	Cincinnati	OH		
Kaczvinsky, Jr.; Joseph Robert	Cincinnati	OH		
Saunders; Charles Winston	Fairfield	OH		
Walter, Jr.; Richard Lee	Hamilton	OH		

US-CL-CURRENT: 435/19; 435/198, 536/23.2

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KOMC](#) [Drawn D](#)

2. Document ID: US 6774284 B1

L2: Entry 2 of 12

File: USPT

Aug 10, 2004

US-PAT-NO: 6774284

DOCUMENT-IDENTIFIER: US 6774284 B1

TITLE: DNA encoding a plant lipase, transgenic plants and a method for controlling senescence in plants

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; John E.	Waterloo			CA
Wang; Tzann-Wei	Waterloo			CA
Hudak; Katalin	East Brunswick	NJ		

Hong; Yuwen

Waterloo

CA

US-CL-CURRENT: 800/290; 435/320.1, 435/419, 435/468, 435/471, 536/23.6, 800/286,
800/287, 800/298

ABSTRACT:

Regulation of expression of senescence in plants is achieved by integration of a gene or gene fragment encoding senescence-induced lipase into the plant genome in antisense orientation. The carnation and Arabidopsis genes encoding senescence-induced lipase are identified and the nucleotide sequences are used to modify senescence in transgenic plants.

51 Claims, 21 Drawing figures

Exemplary Claim Number: 19

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Drawn D
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3. Document ID: US 6495357 B1

L2: Entry 3 of 12

File: USPT

Dec 17, 2002

US-PAT-NO: 6495357

DOCUMENT-IDENTIFIER: US 6495357 B1

TITLE: Lipolytic enzymes

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuglsang; Claus Crone	Nivaas			DK
Okkels; Jens Sigurd	Frederiksberg			DK
Petersen; Dorte Aaby	Birkerod			DK
Patkar; Shamkant Anant	Lyngby			DK
Thellersen; Marianne	Frederiksberg			DK
Svendsen; Allan	Birkeroed			DK
Borch; Kim	Copenhagen			DK
Royer; John C.	Davis	CA		DK
Kretzschmar; Titus	Vaerloese			DK
Halkier; Torben	Birkeroed			DK
Vind; Jesper	Lyngby			DK
Jorgensen; Steen Troels	Alleroed			DK

US-CL-CURRENT: 435/198; 435/195, 435/196, 435/197

ABSTRACT:

The present invention relates to a modified enzyme with lipolytic activity, a lipolytic enzyme capable of removing a substantial amount of fatty matter a one

cycle wash, a DNA sequence encoding said enzymes, a vector comprising said DNA sequence, a host cell harbouring said DNA sequence or said vector, and a process for producing said enzymes with lipolytic activity.

63 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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4. Document ID: US 6448046 B1

L2: Entry 4 of 12

File: USPT

Sep 10, 2002

US-PAT-NO: 6448046

DOCUMENT-IDENTIFIER: US 6448046 B1

TITLE: Recombinant animal viral nucleic acids

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donson; Jon	Davis	CA		
Dawson; William O.	Winter Haven	FL		
Grantham; George L.	Riverside	CA		
Turpen; Thomas H.	Vacaville	CA		
Turpen; Ann M.	Vacaville	CA		
Garger; Stephen J.	Vacaville	CA		
Grill; Laurence K.	Vacaville	CA		

US-CL-CURRENT: 435/70.1; 435/235.1, 435/320.1, 435/325, 435/455, 435/456, 435/69.1,
536/23.1, 536/24.1

ABSTRACT:

The present invention relates to a recombinant viral nucleic acid selected from a (+) sense, single stranded RNA virus possessing a native subgenomic promoter encoding for a first viral subgenomic promoter, a nucleic acid sequence that codes for a viral coat protein whose transcription is regulated by the first viral subgenomic promoter, a second viral subgenomic promoter and a second nucleic acid sequence whose transcription is regulated by the second viral subgenomic promoter. The first and second viral subgenomic promoters of the recombinant viral nucleic acid do not have homologous sequences relative to each other. The recombinant viral nucleic acid provides the particular advantage that it systemically transcribes the second nucleic acid in the host. Host organisms encompassed by the present invention include procaryotes and eucaryotes, particularly animals and plants. The present invention also relates to viruses containing the viral vectors which are infective, production cells which are capable of producing the viruses or parts thereof, a host infected by the viruses of the invention, the gene products produced by expression of the viral nucleic acids and a process for the production of a desired product by growing the infected hosts.

3 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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5. Document ID: US 6284492 B1

L2: Entry 5 of 12

File: USPT

Sep 4, 2001

US-PAT-NO: 6284492

DOCUMENT-IDENTIFIER: US 6284492 B1

TITLE: Recombinant animal viral nucleic acids

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donson; Jon	Davis	CA		
Dawson; William O.	Winter Haven	FL		
Grantham; George L.	Riverside	CA		
Turpen; Thomas H.	Vacaville	CA		
Turpen; Ann M.	Vacaville	CA		
Garger; Stephen J.	Vacaville	CA		
Grill; Laurence K.	Vacaville	CA		

US-CL-CURRENT: 435/70.1; 435/235.1, 435/320.1, 435/325, 435/455, 435/456, 435/69.1,
536/23.1, 536/24.1

ABSTRACT:

The present invention relates to a recombinant viral nucleic acid selected from a (+) sense, single stranded RNA virus possessing a native subgenomic promoter encoding for a first viral subgenomic promoter, a nucleic acid sequence that codes for a viral coat protein whose transcription is regulated by the first viral subgenomic promoter, a second viral subgenomic promoter and a second nucleic acid sequence whose transcription is regulated by the second viral subgenomic promoter. The first and second viral subgenomic promoters of the recombinant viral nucleic acid do not have homologous sequences relative to each other. The recombinant viral nucleic acid provides the particular advantage that it systemically transcribes the second nucleic acid in the host. Host organisms encompassed by the present invention include prokaryotes and eucaryotes, particularly animals and plants.

The present invention also relates to viruses containing the viral vectors which are infective, production cells which are capable of producing the viruses or parts thereof, a host infected by the viruses of the invention, the gene products produced by expression of the viral nucleic acids and a process for the production of a desired product by growing the infected hosts.

27 Claims, 9 Drawing figures
Exemplary Claim Number: 1,7
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draum	D
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6. Document ID: US 6054566 A

L2: Entry 6 of 12

File: USPT

Apr 25, 2000

US-PAT-NO: 6054566

DOCUMENT-IDENTIFIER: US 6054566 A

TITLE: Recombinant animal viral nucleic acids

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donson; Jon	Davis	CA		
Dawson; William O.	Winter Haven	FL		
Granthan; George L.	Riverside	CA		
Turpen; Thomas H.	Vacaville	CA		
Turpen; Ann Myers	Vacaville	CA		
Garger; Stephen J.	Vacaville	CA		
Grill; Laurence K.	Vacaville	CA		

US-CL-CURRENT: 536/23.1; 435/320.1

ABSTRACT:

The present invention relates to a recombinant viral nucleic acid selected from a (+) sense, single stranded RNA virus possessing a native subgenomic promoter encoding for a first viral subgenomic promoter, a nucleic acid sequence that codes for a viral coat protein whose transcription is regulated by the first viral subgenomic promoter, a second viral subgenomic promoter and a second nucleic acid sequence whose transcription is regulated by the second viral subgenomic promoter. The first and second viral subgenomic promoters of the recombinant viral nucleic acid do not have homologous sequences relative to each other. The recombinant viral nucleic acid provides the particular advantage that it systemically transcribes the second nucleic acid in the host. Host organisms encompassed by the present invention include prokaryotes and eucaryotes, particularly animals and plants.

The present invention also relates to viruses containing the viral vectors which are infective, production cells which are capable of producing the viruses or parts thereof, a host infected by the viruses of the invention, the gene products produced by expression of the viral nucleic acids and a process for the production of a desired product by growing the infected hosts.

1 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draum	D
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7. Document ID: US 5969121 A

L2: Entry 7 of 12

File: USPT

Oct 19, 1999

US-PAT-NO: 5969121

DOCUMENT-IDENTIFIER: US 5969121 A

TITLE: Stable biocatalysts for ester hydrolysis

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Larry	Northfield	IL		
Aikens; John	LaGrange Park	IL		
Fonstein; Michael	Chicago	IL		
Vonstein; Veronika	Chicago	IL		
Demirjian; David	Chicago	IL		
Casadaban; Malcolm	Chicago	IL		

US-CL-CURRENT: 536/23.1; 435/19, 435/196, 435/69.1, 536/23.2

ABSTRACT:

The instant invention encompasses isolated stable esterase enzymes characterized by the ability to remain stable at certain temperatures, substrate specificities, and activity profile.

12 Claims, 121 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 47

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [KWMC](#) | [Drawn D](#) 8. Document ID: JP 2003144162 A

L2: Entry 8 of 12

File: JPAB

May 20, 2003

PUB-NO: JP02003144162A

DOCUMENT-IDENTIFIER: JP 2003144162 A

TITLE: RECOMBINANT CANDIDA RUGOSA LIPASE

PUBN-DATE: May 20, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
CHEI-FUU, SHOO	
KUAN-CHIUN, LEE	
SHII-CHIE, TAN	

INT-CL (IPC) : C12 N 15/09; C12 N 1/19; C12 N 1/21; C12 N 9/20

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a nucleic acid that can be used to functionally express a heterologous *C. rugosa* lipase in a common host cell, a lipase having a specific property for industrial applications and a microorganism capable of producing the lipase.

SOLUTION: This isolated nucleic acid comprises a mutant DNA encoding a Candida rugosa lipase, wherein the mutant DNA is at least 80% identical to a wild-type DNA encoding the Candida rugosa lipase, and includes at least 12 codons corresponding to CTG codons in the wild-type DNA, each of the 12 codons, independently, being TCT, TCC, TCA, TCG, AGT, or AGC. A chimeric Candida rugosa lipase comprises a substrate interacting domain of a first *C. rugosa* lipase and a non-substrate interacting domain of a second *C. rugosa* lipase. This *C. rugosa* lipase is encoded by the nucleic acid. This microorganism comprises the nucleic acid.

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[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

9. Document ID: EP 1288294 A2

L2: Entry 9 of 12

File: EPAB

Mar 5, 2003

PUB-NO: EP001288294A2

DOCUMENT-IDENTIFIER: EP 1288294 A2

TITLE: Recombinant Candida rugosa lipases

PUBN-DATE: March 5, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
TANG, SHYE-JYE	TW
LEE, GUAN-CHIUN	TW
SHAW, JEI-FU	TW

INT-CL (IPC) : C12 N 9/20; C12 N 15/09; C12 N 15/55; C12 N 15/62; C12 N 15/67

EUR-CL (EPC) : C12N009/20

ABSTRACT:

CHG DATE=20030403 STATUS=O>????The present invention features an isolated nucleic acid encoding a mutant Candida rugosa lipase, wherein the mutant nucleic acid is 80% identical to a wild-type DNA encoding a Candida rugosa lipase, and where at least 12 of the CTG codons, corresponding to serine in the wild-type DNA, have been replaced by a universal serine codon. The Candida rugosa lipase can be lipase 1,2,3,5 or 8.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

10. Document ID: JP 2005185291 A, EP 1288294 A2, JP 2003144162 A, US 20030124701 A1, JP 2005185290 A

L2: Entry 10 of 12

File: DWPI

Jul 14, 2005

DERWENT-ACC-NO: 2003-395476

DERWENT-WEEK: 200546

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TITLE: Isolated mutant nucleic acid encoding Candida rugosa lipase, useful for the preparation of Candida rugosa lipase for biocatalytic applications

INVENTOR: LEE, G; SHAW, J ; TANG, S ; LEE, K C ; SHOU, T F ; TAN, S C

PRIORITY-DATA: 2001US-0943857 (August 31, 2001), 2001JP-0328304 (October 25, 2001), 2005JP-0053891 (February 28, 2005), 2005JP-0053906 (February 28, 2005)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2005185291 A</u>	July 14, 2005		034	C12N009/20
<u>EP 1288294 A2</u>	March 5, 2003	E	033	C12N009/20
<u>JP 2003144162 A</u>	May 20, 2003		071	C12N015/09
<u>US 20030124701 A1</u>	July 3, 2003		000	C12N009/20
<u>JP 2005185290 A</u>	July 14, 2005		035	C12N015/09

INT-CL (IPC): C07 H 21/04; C12 N 1/18; C12 N 1/19; C12 N 1/21; C12 N 9/20; C12 N 15/09; C12 N 15/55; C12 N 15/62; C12 N 15/67; C12 N 15/74; C12 P 21/02

ABSTRACTED-PUB-NO: EP 1288294A

BASIC-ABSTRACT:

NOVELTY - An isolated nucleic acid (I) comprising a mutant DNA encoding Candida rugosa lipase (II) which comprises a sequence having at least 80% identity to a wild-type DNA encoding (II) and includes at least 12 codons corresponding to CTG codons in the wild-type DNA, or comprising a sequence (S2) of 1469, 1532, 1548 or 1541 nucleotides fully defined in the specification or its degenerate variant, is new.

DETAILED DESCRIPTION - An isolated nucleic acid (I) comprising a mutant DNA encoding Candida rugosa lipase (II). The mutant DNA comprises a sequence having at least 80% identity to a wild-type DNA encoding (II), and includes at least 12 codons corresponding to CTG codons in the wild-type DNA, where each of the 12 codons, independently, are TCT, TCC, TCA, TCG, AGT or AGC, provided that (II) is not C.rugosa lipase 4. (II) comprises a sequence (S2) of 1469, 1532, 1548 or 1541 nucleotides fully defined in the specification or its degenerate variant.

INDEPENDENT CLAIMS are also included for the following:

- (1) A microorganism (III) comprising (I), where (III) is a bacterium or yeast;
- (2) Preparing a mutant DNA encoding a C.rugosa lipase;
- (3) A chimeric C.rugosa lipase comprising a substrate interacting domain of a first C.rugosa lipase and a non-substrate interacting domain of second C.rugosa lipase.

USE - The method is useful for preparing a mutant DNA encoding a Candida rugosa lipase (claimed). (I) is useful in the large scale manufacture of Candida rugosa lipase which is useful for biocatalytic applications.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw. D](#)

11. Document ID: EP 1130100 A1

L2: Entry 11 of 12

File: DWPI

Sep 5, 2001

DERWENT-ACC-NO: 2001-649825

DERWENT-WEEK: 200175

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TITLE: Modified lipolytic enzymes with altered substrate specificity, useful for biocatalytic applications comprising high specificity towards carbon 16 and carbon 18 acyl chains

INVENTOR: BORNSCHEUER, U T; BROCCA, S ; PLEISS, J ; SCHMID, R D ; SCHMID, U ; SCHMITT, J

PRIORITY-DATA: 2000EP-0200513 (February 14, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1130100 A1</u>	September 5, 2001	E	033	C12N015/55

INT-CL (IPC): C12 N 9/20; C12 N 15/55; C12 Q 1/68

ABSTRACTED-PUB-NO: EP 1130100A

BASIC-ABSTRACT:

NOVELTY - A variant, (I), of a parent lipase, with altered property, encoded by an amino acid sequence having at least 65% homology with Candida rugosa lipase comprising a sequence of 534 amino acids fully defined in the specification, and which differs by at least one amino acid substitution at a selected site or at a non-selected site by random mutagenesis in the lipase, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a modified nucleic acid sequence (II) encoding a lipase variant, where the variant is the ripening form of C.rugosa lipase selected from pre, pro, prepro or mature lipase, where the nucleic acid sequence comprises 60% or less of the CTG codons at positions encoding serine as present in the corresponding native C.rugosa encoding sequence, where the CTG codons are replaced by a universal codon for serine, the modified nucleic acid sequence is further modified, such that lipase variant exhibits an altered property;
- (2) an expression vector (III) comprising (II), operably linked to a promoter;
- (3) a recombinant DNA (rDNA) modified host organism (IV) which has been transformed by a DNA vector carrying (II) and which is capable of expressing the lipase variant;
- (4) producing (I); and

(5) an enzymatic composition comprising (I).

USE - (I) are useful in a manner known per se in a process requiring high specificity towards 16-18C acyl chains. (II) is useful as a probe for picking up a natural lipase by hybridization (claimed). (I) is useful in biocatalytic applications.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Drawn D...

12. Document ID: WO 9914338 A1, EP 1012301 A1, AU 9742249 A

L2: Entry 12 of 12

File: DWPI

Mar 25, 1999

DERWENT-ACC-NO: 1999-229539

DERWENT-WEEK: 200035

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TITLE: Synthesis and functional overexpression of a Candida rugosa lipase gene coding for a major industrial lipase

INVENTOR: ALBERGHINA, L; BROCCA, S ; LOTTI, M ; SCHMID, R ; SCHMIDT-DANNERT, C

PRIORITY-DATA: 1997WO-NL00524 (September 16, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9914338 A1</u>	March 25, 1999	E	044	C12N015/55
<u>EP 1012301 A1</u>	June 28, 2000	E	000	C12N015/55
<u>AU 9742249 A</u>	April 5, 1999		000	C12N015/55

INT-CL (IPC): C12 N 1/19; C12 N 9/20; C12 N 15/55

ABSTRACTED-PUB-NO: WO 9914338A

BASIC-ABSTRACT:

NOVELTY - Pure Candida rugosa lipase 1, free of lipases 2-5, can be obtained without using extensive working up procedures.

DETAILED DESCRIPTION - Nucleic acid sequence (I) or its variant (Ia) encoding a ripening form of native Candida rugosa lipase (pre, pro, prepro or mature lipase) comprises at most 60% of the CTG codons at positions encoding serine as present in the corresponding native C. rugosa encoding sequence, the CTG codons having been replaced by a universal codon for serine. The lipase is preferably lipase 1.

INDEPENDENT CLAIMS are included for the following:

(1) expression vectors comprising a nucleic acid sequence as above, operatively linked to a promoter;

(2) microorganisms other than C. rugosa comprising a sequence or expression vector as above, preferably comprising more than 1 sequence;

C. rugosa lipase contaminated by at most 20%, preferably 5%, of other C. rugosa protein or free of other C. rugosa lipase i.e. homogenous C. rugosa lipase; and

(3) industrial scale production of *C. rugosa* lipase 1, free from lipases 2-5.

USE - Lipases produced by Candida rugosa are extensively used in industrial bioconversions, and the pure lipase 1 can be used in a process requiring high specificity towards acyl chains shorter than 14C

ADVANTAGE - Lipase 1, free of 2-5, can be obtained without using extensive and expensive working up procedures. Pure lipase 1 exhibits higher activity towards caprinate than towards palmitate.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn De](#)

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Terms	Documents
L1 and (nucleic acid or dna or gene) and ctg	12

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1. Document ID: US 20050198706 A1

L4: Entry 1 of 5

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050198706
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050198706 A1

TITLE: Lipases and methods of use

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McCutchen, Billy F.	Clive	IA	US	
Abad, Andre R.	W. Des Moines	IA	US	
Wong, James F.	Johnston	IA	US	
Yu, Cao Guo	Urbandale	IA	US	

US-CL-CURRENT: 800/279; 435/468

2. Document ID: US 20050188439 A1

L4: Entry 2 of 5

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050188439
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050188439 A1

TITLE: Methods for enhancing insect resistance in plants

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McCutchen, Billy F.	Clive	IA	US	
Abad, Andre R.	W. Des Moines	IA	US	

US-CL-CURRENT: 800/279; 435/468

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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3. Document ID: US 20030199069 A1

L4: Entry 3 of 5

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199069
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030199069 A1

TITLE: Novel lipolytic enzymes

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fuglsang, Claus Crone	Nivaa	CA	DK	
Okkels, Jens Sigurd	Frederiksberg C.		DK	
Petersen, Dorte Aaby	Valby		DK	
Patkar, Shamkant Anant	Lyngby		DK	
Thellersen, Marianne	Frederiksberg C.		DK	
Svendsen, Allan	Birkeroed		DK	
Borch, Kim	Kobenhavn K		DK	
Royer, John C.	Davis		US	
Kretzschmar, Titus	Vaerlose		DK	
Halkier, Torben	Birkeroed		DK	
Vind, Jesper	Lyngby		DK	
Jorgensen, Steen Troels	Alleroed		DK	

US-CL-CURRENT: 435/198; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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4. Document ID: US 20030124701 A1

L4: Entry 4 of 5

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124701
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20030124701 A1

TITLE: Recombinant Candida rugosa lipases

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shaw, Jei-Fu	Taipei		TW	
Lee, Guan-Chiun	Taipei		TW	

Tang, Shye-Jye

Taipei

TW

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